

SYSTEM AND METHOD FOR SHARING GENERAL PURPOSE DATA LINES BETWEEN A DISPLAY PANEL AND NON-DISPLAY DEVICES

ABSTRACT OF THE DISCLOSURE

A graphics controller includes a memory region configured to store image data for display on a display panel in communication with the graphics controller. Interface circuitry modules where each of the interface circuitry modules is configured to transmit data from the graphics controller over a set of shared data lines are provided. Selection circuitry configured to select data from one of the interface circuitry modules for transmission over the set of shared data lines is included. Line sharing circuitry configured to inform each of the interface circuitry modules to transmit control data is included. The line sharing circuitry is further configured to generate select signals for the selection circuitry. The select signals enable the selection circuitry to select the data from one of the interface circuitry modules for transmission over the shared data lines. A method for driving a display panel and peripheral devices associated with the display panel through common data lines is also provided.